

Edison^{PRO} - Bluetooth 12V 200AH LiFePO₄ Battery

Built in LCD Display

ELECTRICAL SPECIFICATION

Nominal Voltage	12V (12.8V)
Nominal Capacity	200AH
Capacity @20A	10HR
Energy	2560Wh
Resistance	≤20m Ω
Efficiency	99%
Self-Discharge	< 3% per month
Max. Modules in Series	-

DISCHARGE SPECIFICATION

Recommended Cont. Discharge	100A
Max. Cont. Discharge Current	200A
Peak Discharge Current	400A(3s)
BMS Discharge Current	500A±100A(10mS)
Recommend Cut-off voltage	9.6V
BMS Discharge Cut-off	9.2V
Short Circuit Protection	200-600 μs

CHARGE SPECIFICATION

Recommended Charge Current	20-50A
Max. Charge Current	50A
Peak Charge Current	100A(3s)
BMS Charge Voltage Cut-off	14.6V (1±0.2S)
Reconnect Voltage	14.2V-14.6V
Balancing Current	2A
Balancing Voltage	3.4V
Charge Current (-20 to -10 °C)	≤0.05 C

FEATURES & BENEFITS

- HIGH CYCLE LIFE: >3500 times @ 85%DOD for effectively lower cost of ownership
- BATTERY PACK BUILT-IN BMS Protection: Battery Management System is incorporated to protect battery from OVER CHARGING, OVER DISCHARGING, SHORT CIRCUIT
- LIGHT WEIGHT: Dry power lithium batteries have higher energy density, Wh/kg also being up to 1/3 of SLA battery
- WIDE OPERATING TEMPERATURE RANGE: Suitable for users in a wider range of application where ambient temperature is unusually high: up to +60°C
- STEADY OUTPUT VOLTAGE, VIBRATION & SHOCK RESISTANT, NO MEMORY EFFECT, PRESSURE RESISTANT CELLS



MECHANICAL SPECIFICATION

Dimensions (L*W*H)	521*238*218mm
Weight	22KG±0.5KG
Terminal Type	Screw Stud
Case Material	ABS
Enclosure Protection	IP65
Cell Type: Prismatic	4S1P/4S2P
Total Cell	4/8 PIECES

TEMPERATURE SPECIFICATION

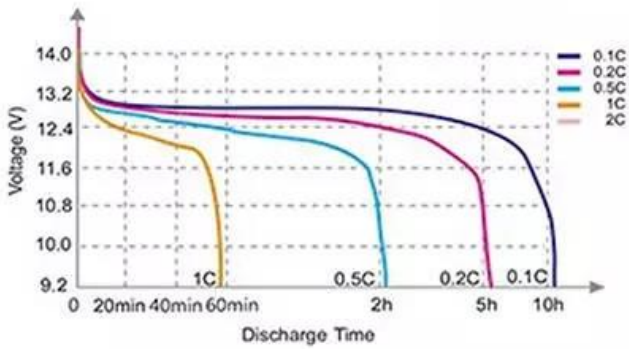
Discharge Temperature	-20°C to 60 °C
Charge Temperature	0 °C to 45 °C
Storage Temperature	-20°C to 40 °C
Peak High Temperature	80 °C
Reconnect Temperature	50 °C

OTHER CUSTOMISED SERVICES

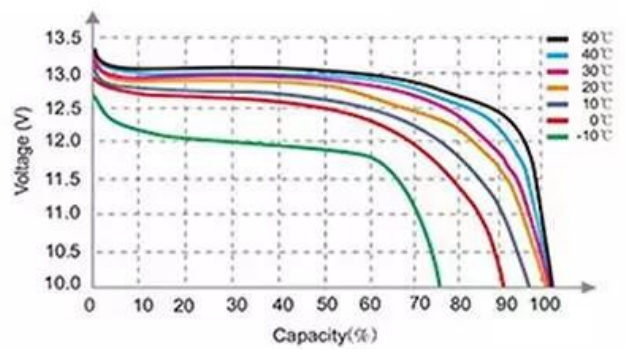
SMART FUNCTION: RS485/RS232/CAN/BLUETOOTH
CHARGE/DISCHARGE CURRENT, BATTERY SIZE, OEM

PERFORMANCE CHARACTERISTIC

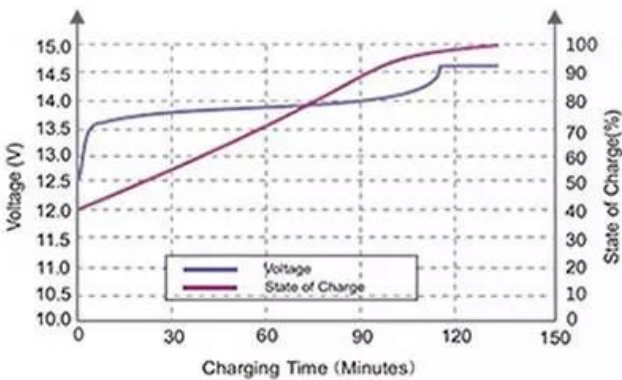
Different Rate Discharge Curve (25°C)



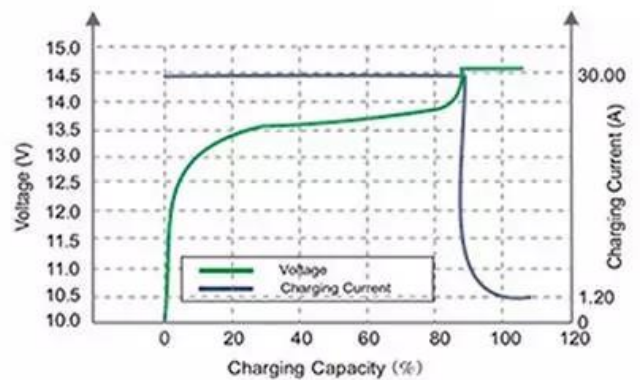
Different Temperature Discharge Curve(0.5°C)



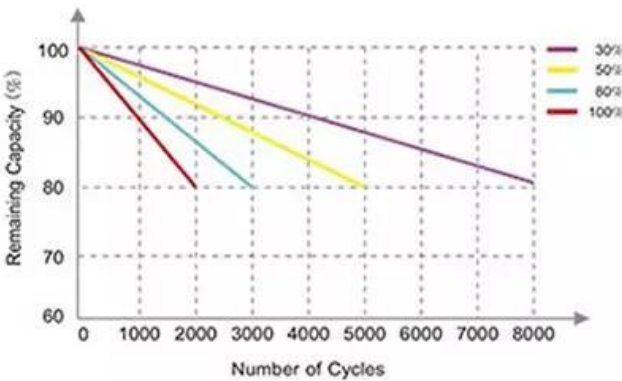
State of Charge Curve (0.5°C, 25°C)



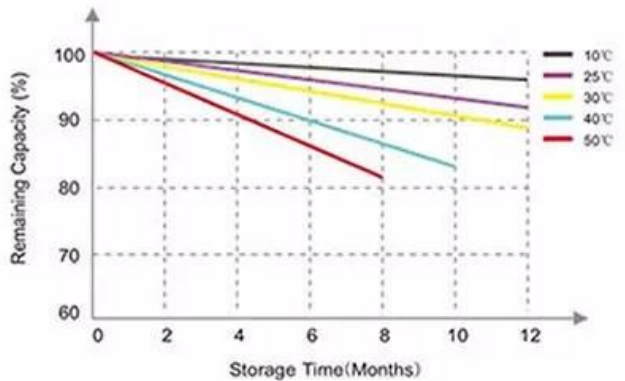
Charging Characteristics(0.5°C, 25°C)



Different DOD Discharge Cycle Life Curve (15°C)



Different Temperature Self Discharge Curve





SUITABLE APPLICATIONS

- Lithium Iron Phosphate can be used in any application that would normally use Lead Acid, GEL, or AGM type batteries.
- LiFePO₄ in 4S=12.8V and 8S=25.6V is closed to Lead Acid equivalents of the Lithium rechargeable types
- Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications

CAUTIONS

- Do NOT expose the battery to water
- Do NOT expose the battery to fire & high temperature
- Do NOT short circuit, crush or disassemble
- Only use LiFePO₄ charger
- Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.

BLUETOOTH APP

BW-BLE: The display page is as follow

- The data in the figure are just examples and not real data, for reference only
- Each battery has a corresponding Bluetooth number. For example: DL-CA-12-100. Find the code and click it to connect directly

Apple iOS



Android

